

MECHANICAL ENGINEERING UNDERGRADUATE CURRICULUM

NAME _____

ADVISOR _____

FIRST SEMESTER

		credits
APMA 111	Single Variable Calculus	4
CHEM 151	Intro Chem for Engineers	3
CHEM 151L	Intro Chem Lab for Engineers	1
ENGR 162	Introduction to Engineering	4
STS 101	Lang Tech Society	3
Total		15

SECOND SEMESTER

		credits
APMA 212	Multivariate Calculus	4
CS 101	Introduction to C++	3
PHYS 142E	General Physics I	3
PHYS 142W	Physics Lab	1
_____	Science Elective I	3
_____	HSS Elective	3
Total		17

THIRD SEMESTER

		credits
MAE 200	Intro to Mechanical Engineering	2
MAE 200L	Mechanics Familiarity Lab	1
MAE 209	Probability & Statistics	3
MAE 230	Statics	3
PHYS 241E	General Physics II	3
PHYS 241L	General Physics Lab II	1
_____	HSS Elective	3
Total		16

FOURTH SEMESTER

		credits
APMA 213	Ordinary Differ Eqn	4
MAE 210	Thermodynamics	3
MAE 210L	Fluid/Thermal Fam Lab	1
MAE 231	Strength of Materials	3
MAE 232	Dynamics	3
STS 200/300	Elective	3
Total		17

FIFTH SEMESTER

		credits
MAE 321	Fluid Mechanics I	3
MAE 371	Mech Systems Modeling	3
MAE 381	Experimental Methods Lab	2
_____	Math/Science Elective II	3
_____	Unrestricted Elective*	3
_____	MAE Tech Elective*	3
Total		17

SIXTH SEMESTER

		credits
MAE 314	Elem Heat Transfer	3
MAE 362	Mach Elem & Fatig	4
MAE 384	Mech Eng Lab	2
_____	HSS Elective	3
_____	MAE Tech Elective*	3
Total		15

SEVENTH SEMESTER

		credits
MAE 461/463	Design I	3
MAE 471	Mechatronics	4
STS 401	West Tech & Culture	3
_____	MAE Tech Elective	3
_____	Unrestricted Elective*	3
Total		16

EIGHTH SEMESTER

		credits
MAE 462/464	Design II	3
STS 402	The Engr in Society	3
_____	MAE Tech Elective*	3
_____	MAE Tech Elective*	3
_____	Unrestricted Elective*	3
Total		15

Total Hours 128

* The five courses that could be used to obtain a minor within SEAS. A minor can be obtained in the College of Arts and Sciences by appropriate use of the HSS electives and the unrestricted electives.

A list of approved technical electives is available on the MAE web page. At least 3 technical electives must be MAE courses 300 level or higher not specifically required for the ME degree.

Suitable Math/Science II electives are all courses satisfying Science Elective I plus approved courses listed on the MAE web page.

** APMA 311 may be substituted for MAE 209.